Translation

PATENT COOPERATION TREAT

PCT Application PCT/JP2003/007336

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference A31347A	FOR FURTHER ACTIO	SeeNotificationofTransmittalofInternational Preliminary Examination Report (Form PCT/IPEA/416)		
nternational application No.	International filing date (day/month/year) 10 June 2003 (10.06.03)		Priority date (day/month/year) 10 June 2002 (10.06.02)	
РСТ/ЈР03/07336				
international Patent Classification (IPC) on C12N 15/12, 1/21, 5/10, C07I	or national classification and IPC X 14/435, 19/00, G01N 21/78			
Applicant	RIKEN			
This international preliminary exand is transmitted to the applicant.	camination report has been preport according to Article 36.	ared by this Inter	national Preliminary Examining Authority	
2. This REPORT consists of a tota	of sheets, incl	uding this cover	sheet.	
This report is also accom		ts of the descrip	tion, claims and/or drawings which have been cations made before this Authority (see Rule	
These annexes consist of	f a total of shee	ts.		
3. This report contains indications	relating to the following items:			
I Basis of the rep	oort			
II Priority			step and industrial applicability	
***		weny, mvenuve	step and industrial applicability	
IV Lack of unity of invention Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;				
v Reasoned state citations and e	ement under Afficie 35(2) was	ement		
VI Certain docum				
VII Certain defects in the international application Certain observations on the international application				
VIII Certain observ	vations on the international appli	Cation		
		ate of completi	on of this report	
Date of submission of the demand			1 October 2003 (01.10.2003)	
10 June 2003 (1	[0.06.03)			
Name and mailing address of the IPEA/JP		Authorized offic	er	
Facsimile No.		Telephone No.		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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In	onal application No.
_	PCT/JP03/07336

I. Basis	sis of the report	
1. With	th regard to the elements of the international application:*	
	the international application as originally filed	
	the description:	
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	pages	
	pages, filed with the letter	, filed with the demand
	the claims:	or
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		, as originally filed
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		, filed with the demand
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	the drawings:	
	pages	, as originally filed
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	pages, filed with the letter of	of
[] t	the sequence listing part of the description:	
	7000	
	nages	, as originally filed
	pages, filed with the letter o	, filed with the demand
These	n regard to the language, all the elements marked above were available or furnished to international application was filed, unless otherwise indicated under this item.	to this Authority in the language in which is: er Rule 23.1(b)).
	contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does international application as filed has been furnished. The statement that the information recorded in computer readable form is identified been furnished.	not go beyond the disclosure in the
] []	The amendments have resulted in the cancellation of: the description, pages the claims, Nos the drawings, sheets/fig This report has been established as if (some of) the amendments had not been made, beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	, since they have been considered to go
Replace in this and 70.	cement sheets which have been furnished to the receiving Office in response to an inv	vitation under Article 14 are referred to not contain amendments (Rule 70.16

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tement			
Novelty (N)	Claims	1-18	YES
	Claims		NO
Inventive step (IS)	Claims		YE
	Claims	1-18	NO
Industrial applicability (IA)	Claims	1-18	YES
	Claims		NO

2. Citations and explanations

Document 1: Midoriishi, March 2002, No. 13, pages 1-4

Claims 1-18

Based on the description in document 1 cited in the international search report, the inventions of claims 1-18 lack an inventive step.

Document 1 describes the cloning of DNA that encodes a fluorescent protein from Cnidaria including coral and sea anemone, and an attempt to analyze the properties of that fluorescent protein. Because Cnidopus japonicus was a known species of sea anemone at the time this application was filed, persons skilled in the art could easily select Cnidopus japonicus as the Cnidaria in document 1 and clone the DNA that encodes the fluorescent protein from Cnidopus japonicus. Moreover, persons skilled in the art could easily predict the effect.

In addition, techniques for the deletion, substitution and addition of amino acids when producing a mutant fluorescent protein obtained by cloning are widely known, and this examination finds that so doing presents no particular technical difficulty.